For Research Use Only

PABPN1 Monoclonal antibody

Catalog Number:66807-1-Ig Featured Product 5 Publications

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Basic Information

Catalog Number:
66807-1-Ig

Size:
150ul , Concentration: 1857 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27470

GenBank Accession Number:
BC010939

GeneID (NCBI):
8106

UNIPROT ID:
Q86U42

Full Name:
poly(A) binding protein, nuclear 1

Calculated MW:
33 kDa

Observed MW:
50-56 kDa

Purification Method:
Protein G purification

CloneNo.:
3C12E12

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000
IF/ICC 1:1000-1:4000

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, CoIP, RIP

Species Specificity:
Human, Mouse, Rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, K-562 cells, PC-12 cells

IP : Jurkat cells,

IHC : human colon tissue, human colon cancer tissue, rat heart tissue, mouse heart tissue

IF/ICC : MCF-7 cells,

Background Information

Poly(A) Binding Protein Nuclear 1(PABPN1) is one of the isoforms of poly(A) binding protein (PABP) that locating to the nucleus in eukaryotic cells. And PABPN1 plays important role in mRNA stability by regulating of poly-A tail length, mRNA decay and proximal polyadenylation site (PAS) utilization at the 3'-UTR (PMID:23300856). Another report showed that PABPN1 shuttles between the nucleus and the cytoplasm to export poly(A) RNA from the nucleus (PMID:23601051). It is reported that PABPN1 is ubiquitously expressed in almost all tissues, however, mutations in PABPN1 causes Oculopharyngeal Muscular Dystrophy (OPMD) which affected in skeletal muscles specifically. Because of a mild reduction in PABPN1 levels is sufficient to induce muscle wasting (PMID:27152426). Acetylation, Methylation, Phosphoprotein are common post-translational modifications of PABPN1 protein. And 50-55 kDa bands have been reported (PMID: 29939290; 28361972).

Notable Publications

Author	Pubmed ID	Journal	Application
J J David Ho	34644561	Cell Rep	WB
Baiqing Tang	35963436	J Biol Chem	WB
Dimitrios Papadopoulos	38703770	Mol Cell	WB,CoIP

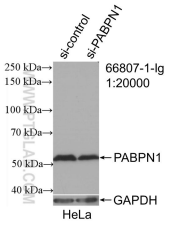
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

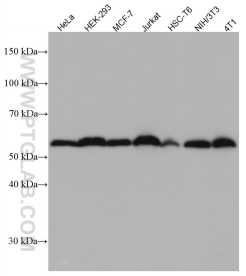
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

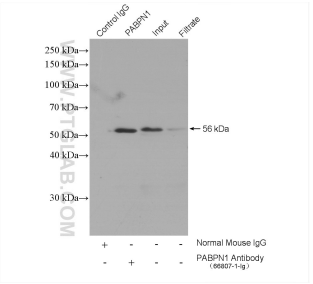
Selected Validation Data



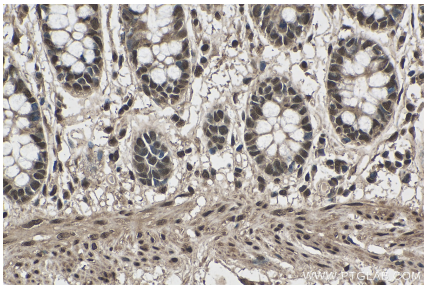
WB result of PABPN1 antibody (66807-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PABPN1 transfected HeLa cells.



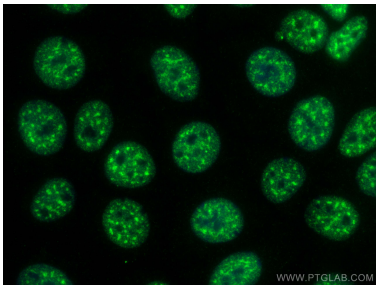
Various lysates were subjected to SDS PAGE followed by western blot with 66807-1-Ig (PABPN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-PABPN1 (IP:66807-1-Ig, 5ug; Detection:66807-1-Ig 1:600) with Jurkat cells lysate 1680 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66807-1-Ig (PABPN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PABPN1 antibody (66807-1-Ig, Clone: 3C12E12) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).